

Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

REMARKS

By this amendment, the specification has been editorially amended, claims 1-9 have been amended and new claims 10-18 have been added in the application. Currently, claims 1-18 are pending in the application.

Examiner Contee is thanked for the courtesies extended to the undersigned during the telephone interview on February 13, 2006. During the telephone interview, applicant's representative specifically pointed out that independent claims 1 and 4 include "a target bearing calculating unit which calculates a second bearing from a current position to the destination based on the positional information and the predetermined specific information" and "a target capturing unit which produces a sound effect in response to the difference between the first and second bearings". Also, applicant's representative pointed out that the independent method claims 6-9 included similar features as claims 1 and 4. Applicant's representative also pointed out that Shimada (U.S. Patent Application Publication No. 2002/0152025) did not appear to teach or suggest these features as claimed in the present invention. During the telephone interview, Examiner Contee agreed that Shimada did not disclose a target bearing

Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

calculating unit which calculates a second bearing from a current position to the destination based on the positional information and the predetermined specific information and a target capturing unit which produces a sound effect in response to the difference between the first and second bearings as claimed in the present invention.

It is therefore respectfully submitted that the claims define over Shimada and the 35 USC 102(e) rejection should be withdrawn.

Claim 1 was objected because there was a typographical error in line 23 and the word "firs" should be amended to "first". By this amendment, the word "firs" in claim 1 has been amended to "first".

Claims 6 and 8 were objected because there was a typographical error, and the phrase "transmitting predetermined the specific information" was unclear. By this amendment, the word "transmitting predetermined the specific information" in claims 6 and 8 has been amended to "transmitting the specific information". Therefore, in view of these amendments it is respectfully submitted that these objections should be withdrawn.

Claims 1-9 were rejected under 35 USC 102(e) as being anticipated by Shimada (U.S. Patent Application Publication No. 2002/0152025).

Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

This rejection is respectfully traversed in view of the discussions with Examiner Contee and the remarks below. Applicant has also made some minor amendments to the claims and these changes are made to clarify the claimed subject matter and not to define over Shimada.

The present invention relates to a mobile terminal device having a route guiding function and a route guiding method utilizing the mobile terminal device (see page 1, lines 4-6 of the specification).

The present invention discloses that in Fig. 1, a mobile phone 1 is connected to a server 2 in a GPS base station via a radio communication network. A position DB (database) 3 and a map DB 4 are connected to the server 2 (see page 13, lines 15-18 of the specification).

As shown in Fig. 3, the mobile phone 1 includes a mobile phone function block 10, a GPS module 11, a sound source module 12, a geomagnetic bearing sensor 13, a controller 14, a control program (ROM) 15, and a RAM 16 (see page 15, lines 15-20 of the specification).

The controller 14 controls respective portions of the mobile phone 1 based on a control program. In this case, when the latitude/longitude of the current position are measured by the mobile phone 1, this controller 14 calculates such

Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

latitude/longitude based on the position measuring data given from the GPS module 11. An angle of the bearing to which the mobile phone 1 is directed (azimuth angle: an angle to a reference bearing (e.g., North bearing)) is calculated by the controller 14 based on the detecting signal supplied from the geomagnetic bearing sensor 13.

The control program, current position icon data indicating the current position on the map and target position icon data indicating the position of the destination, current bearing icon data indicating the direction of the mobile phone 1 (having a display mode by an arrow), melody data to produce various melodies played under predetermined conditions, the address of the server 2, and so on are stored in the ROM 15 shown in Fig. 3 (see page 17 line 8 - page 18, line 8 of the specification).

As shown in Fig. 9, the mobile phone 1 displays a target position icon (a symbol a in Fig. 9) and a current position icon (a symbol b in Fig. 9) on the LCD panel 10c to overlap with positions on the map corresponding to latitudes/longitudes of the target position derived in above steps and the current position respectively, and displays a current bearing icon (a symbol c in Fig. 9) to overlap with the current position icon (see page 22, lines 13-20 of the specification).

Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

In Fig. 10, a current position icon (a symbol b) may be displayed on the map to overlap with the position corresponding to the latitude/longitude of the current position. The current bearing icon (a symbol c) and a target bearing icon (a symbol d) indicating the target position may be displayed to overlap with the current position icon (see page 25, line 26 - page 26, line 4 of the specification).

Claims 1 and 4 recite "a target bearing calculating unit which calculates a second bearing from a current position to the destination based on the positional information and the predetermined specific information".

Also, claims 1 and 4 recite "a target capturing unit which produces a sound effect in response to the difference between the first and second bearings".

Similarly, independent claims 6-9 recite "calculating a second bearing from the current position to the destination based on the positional information and the specific information".

Similarly, claims 6-9 recite "producing a sound effect in response to the difference between the first and second bearings". These features are not shown or suggested by Shimada.

Shimada relates to mobile unit navigation and in particular to a mobile unit navigation system and a mobile unit navigation method having a function of learning a differential route between the move

Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

route of a mobile unit and the guide route and applying the learn result to the guide route (see page 1, paragraph [0002]).

Shimada discloses that in Fig. 1, reference numeral 10 denotes position detection means for detecting the current position of a mobile unit, reference numeral 20 denotes map information acquisition means for acquiring map information from a storage medium or an external system, reference numeral 30 denotes input means for specifying a destination, reference numeral 40 denotes route search means for searching for a guide route from the current position to the destination based on the map information, and reference numeral 50 denotes output means for displaying the found guide route as an image or guiding the user along the found guide route with voice (see page 3, paragraph [0057] of the specification).

Shimada also discloses that reference numeral 11 denotes a bearing sensor of a gyro, a geomagnetic sensor, etc., for detecting the bearing of the mobile unit, reference numeral 12 denotes a speed sensor for detecting the speed and the move distance of the mobile unit, and reference numeral 13 denotes a GPS receiver for calculating the current position based on information received from a GPS satellite (see page 3, paragraph [0058]).

Shimada does not disclose a target bearing calculating unit which calculates a second bearing from a current position to the

Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

destination based on the positional information and the predetermined specific information as claimed in claims 1 and 4.

Shimada also does not disclose a target capturing unit which produces a sound effect in response to the difference between the first and second bearings as claimed in claims 1 and 4.

Shimada also does not disclose calculating a second bearing from the current position to the destination based on the positional information and the specific information as claimed in claims 6-9.

Shimada also does not disclose producing a sound effect in response to the difference between the first and second bearings as claimed in claims 6-9.

For these reasons, it is believed that Shimada does not show or suggest the present claimed features of the present invention and therefore, the rejection based on Shimada should be withdrawn. Allowance of these claims is also respectfully requested.

New dependent claims 10 and 11, which depend from independent claims 1 and 4 respectively, have been added in the application. New dependent claims 10 and 11 recite "a relative bearing calculating unit which calculates the difference between the first bearing and the second bearing". This feature is also not shown by Shimada.

Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

New dependent claims 12 and 13, which depend from claims 6 and 8 respectively, have been added in the application. New dependent claims 12 and 13 recite "calculating a relative bearing which is the difference between the first bearing and the second bearing". This feature is also not shown by Shimada.

New dependent claim 14, which depends from independent claim 1, has been added in the application. New dependent claim 14 recites "means for displaying an icon image indicating the first bearing on said displaying unit". This feature is also not shown by Shimada.

New dependent claim 15, which depends from independent claim 1, has been added in the application. New dependent claim 15 recites "means for displaying an icon image indicating the second bearing on said displaying unit". This feature is also not shown by Shimada.

New dependent claim 16, which depends from independent claim 4, has been added in the application. New dependent claim 16 recites "means for displaying a current bearing icon image indicating the first bearing and a destination bearing icon image indicating the second bearing on said displaying unit". This feature is also not shown by Shimada.

New dependent claims 17 and 18, which depend from independent claims 1 and 4 respectively, have been added in the

Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

application. New dependent claims 17 and 18 recite "the position information of the current position is indicated by a latitude A of the current position and a longitude B of the current position, and the predetermined specific information to identify a destination is indicated by a latitude C of the destination and a longitude D of the destination; and wherein the second bearing is calculated by a formula: $\theta = \arctan \left(\frac{\text{latitude C} - \text{latitude A}}{\text{longitude D} - \text{longitude B}} \right)$ ". Applicant respectfully submits that these additional features claimed in new claims 10-18 also define over Shimada and the other prior art of record. This feature is also not shown by Shimada.

Shimada also does not disclose many features of dependent claims 2-3 and 5.

Shimada does not disclose that the target capturing unit produces different melodies in response to the difference between the first and second bearings as claimed in claims 2 and 5.

Shimada also does not disclose the target capturing unit blinks the icon image displayed at the position of the destination when the first bearing coincides with the second bearing as claimed in claim 3.

Allowance of these dependent claims is also respectfully requested.

In view of foregoing claim amendments and remarks, it is

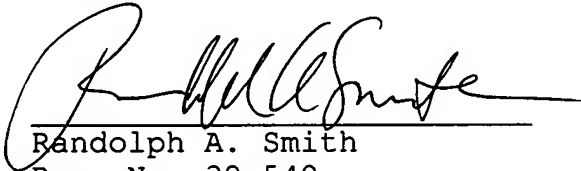
Application No.: 10/780,747
Amendment under 37 CFR 1.111
February 21, 2006

respectfully submitted that the application is now in condition for allowance and an action to this effect is respectfully requested.

If there are any questions or concerns regarding the amendments or these remarks, the Examiner is requested to telephone the undersigned at the telephone number listed below.

Respectfully submitted,

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